BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name Of Work :- Detailed Estimate for Providing lines, poles, lights and meter service to 1st,2nd and 3rd B cross near aditi malya school in ward no.2

Budget Head .....

Division No..... Estimate No. ..... For Rs.= 300000.00

Sl. No.	Description of Work	Qty.	Rate Rs. Ps.	Unit	Amount
1	Digging of Pits 1.8 mtr depth for errection of 9 to 10mtr Long Steel/RCC/PSC supports as per approved Drawing.Ordinary Soil. bescom SR	7	378.00	Nos	2646.00
2	Pole concreting with CC 1:2:4 (without coping) f) 8mtrs support (400x400x1500mm)	7	982.00	Nos	6874.00
3	Any Dismantling work 90% of the corresponding erection charges(304x90%=273.6)	7	273.60	Nos	1915.20
4	Transporting and erecting of 3.5 Mtrs long Swged Tubelor park poles including Digging of pit 45x45x100cms & providing 1:2:4 concrete of size 35x35x130 cms Including coping as per the detaild enclosed civil estimate & drawimg	7	972.00	Nos	6804.00
5	Supplying of 1.1KV grade Aerial Bunched Cable Stranded & Compacted Aluminum Phase Conductor, and Stranded Messenger Conductor with all aluminum Alloy, Phase Conductor is insulated with XLPE Compound, insulated Messenger with specified IS-14255:1995 & confirming to GTP of GROUP-A.2 X 25 + 1 X 25 SQ.MM KPWD ELE SR 2014-15	950 830	143.00	Per Mtr	135850.00
6	2 Pin Cross Arm with pole clamp, bolt & nuts & washers for RCC Pole - MS	26	162.00	Nos	4212.00
7	Piercing connector suitable for 16 sqmm - 95 sqmm AB cable -steel light connection. Bescom SR of 2010-11, Page no 16 of 34, Serial no 51.12.	12	147.00	Each	1764.00
8	Suspension clamp assembly 25 to 95 sqmm bare messenger. Bescom SR of 2010-11, Page no 16 of 34, Sl no 51.17.	15	280.00	Each	4200.00
9	Dead end clamp / Anchor clamp assembly 25 to 95 sqmm bare messenger, Bescom SR of 2010-11, Page no 16 o 34, Sl no 51.16.	6	140.00	Each	840.00
10	Universal Hook and Bolts and Nuts, Bescom SR of 2010-11, Page no 16 of 34, Sl no. 51.15.	16	280.00	Each	4480.00
11	Stringing of 1.1kv LT Arial Bunched Cable, BESCOM SR	950 830	10.30	Per Mtr	9785.00
12	B. Work to be carried out as per requirement & actuals and as per the direction of the in charge engineer, Painting of existing street light pole after scrapping the old paint and painted with suitable colour enamel/Silver paint including coping/looting of the pole.a)5 mtr pole 72/13.17.1	16	550.00	Each	8800.00
13	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.6 sqmm 6/2.3.3	80	70.00	Mtrs	5600.00
14	Supplying and fixing telescopic M.S. bracket fabricated by using 0.5m length 4" dia telescopic M. S. pipe, with 2" dia 1.5m long M. S. bracket and are welded with suitable angle, using 6mm thick M. S. sheet, grip bolts & nuts, as required, suitable for 9 to 12 Mtrs. M. S. tubular pole, with necessary two coats of painting, with all other accessories..Single bracket 1.5 Mtr. Length page-79/14.4.1	9	1200.00	Each	10800.00
15	Supply of LED Streetlight luminaire with pressure die cast aluminium housing body for optimal thermal dissipation. Lamp compartment comprising of anti glare clear diffuser with Injection moulded polycarbonate material, delivering superior light output. Rated life Burning Hrs 50000 hr @ Lumen Maintenance of 70%, maximum light intensity should be between 60 degrees to 70 degrees. CCT > 5500K, IP 66 optical and electrical compartment & impact resistance of complete luminaire > IK08. Power Factor >0.9 with mains, Surge Protection- Min 5KV along with Over voltage/ Overload, short circuit/ miss-wiring protection. Compatible for pole mouting with outer dia of 40mm to 50mm. Universal Voltage driver to operate wide voltage range from 100V to 270V 50/60Hz application. Compliance to IS 10322/IEC 60598, LM 79 & LM 80 Adherence with RoHS. UL approved MCPCB. Top access street light with single screw to ensure ease of maintenance at the sight site location with minimized minimal tools. LED Light fixture with W System Powerconsumption. LED Efficiency>130lm/w, nominal CRI >75. Luminaire manufacturer should have in-house facility accredited by NABL/CPRI & any Government certified agency & Design & Development facility certified by ISO 9001:2008 . Housing with supplier word mark /name shall be Engraved / Embossing on the die cast housing/ Body part. Warranty of 2 Years against any manufacturing defect working under standard electrical conditions as mentioned above should be given by LED manufacturer & Cree/Nichia/ Lumileds/Osram make LED SourceLED Streetlight 70watts .KPWD ELE SR Page-66/12.8	8	5480.00	Each	43840.00

16	Fixing halogen/metal halide / SVL / IL / LED floodlight fitting over existing pole / wall ceiling including clamps, bolts, nuts and wiring using suitable capacity wires.79/14.5	10	175.00	Each	1750.00
17	Fabricating, supplying and erection of ...Mtrs long hot dip Galvanized Conical pole with BSEN 10025 grade S355JO steel plate for shaft, IS 2062 for base plate with door opening arrangements, including suitable boards, Bakelite sheet and MCBs as per IS specifications suitable to withstand the wind speed of 47 m/sec for .....Mtrs pole in single section and single joint welded as per IS 9595/IS 10178AWS having dimensions bottom .....mm, top....mm with 3mm thick, suitable base plate and 4Nos of long J bolts along with template and the pole shall be hot dip galvanized in single dipping with not less than 65micron as per ASTM-A123 and 153 etc.,(excluding foundation) as per drawing appended7 meters - Top 75mm and bottom 145 mm dia.page-12/4.4	2	12355.00	Each	24710.00
18 AR	Supplay and erection of Single phase Thyristor based smart street light control system consisting of following aquipments 1. Precise turn ON & OFF of street lights on pre programmed data 2. 2 x 16 character LCD display unit to display date, status ON Or OFF , turn ON & OFF time, 3. Keypad to set/edit ON & OFF time as per the end user 4. Microcontroller with Real Time Clock and associated hardware 5. 1 No, SCR 162 amps thyristor module for load switching mounted on an extruded alluminium heat sink 6. Thyristor Driver Card: Driver control circuit to switch ON & OFF the Thyristor module 7. Firmware: Firmware to control the hardware and display the required data 8. Power Supply: AC to DC conversion circuit required for the electronic circuitry and driver control card 9. Enclosure is made out of 18 swg CRCA ms sheet of size H480xW310XD200mm with luvers for Heat dissipation IP65 weather proof metal enclosure 10. Wiring & other components like wiring, connectors ,insulators, Alluminium Bus bar and 2 nos of 125 amps single pole MCB for main power Supply control and Manual On & off operation & etc complete.	1	31860	No	31860.00
19	GST 12% ON item 12 to 17				11460.00
20	Misleniuos				49.00 205.80
	Total Rs				300000.00

CERTIFICATE

1. The Place was inspected and work is essential
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on AR/2019-20 / , BESCOM SR approved rates

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 300000:00
RUPEES THREE LAKHS ONLY
is accorded P0303 M AND R TO PUMP SETS LIFTS D.G SETS WIRELESS SETS AND INTERNAL TELEPHONE
Registered as 41/2019-20 Subject to conditions
No. BBMP/EE/ELEC/42/AS/41/2019-20
Dt 18-12-2019

Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 300000:00
Rupees RUPEES THREE LAKHS ONLY
Under P0303 M AND R TO PUMP SETS LIFTS D.G SETS WIRELESS
Registered as 28/2019-20
Subject to
enclosed memo BBMP/EE/ELEC/42/AS/41/19-20
Dt. 18-12-2019
BBMP/EE/ELEC/42/TS/28/2019-20 Sanctioned
Dated 18-12-2019 Rs 300000:00

Executive Engineer